UNITED STATES DEPARTMENT OF COMMERC
Bureau of the Census
Washington, DC 20233-0001

DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES R-14

MEMORANDUM FOR Richard F. Blass
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From: Donna L. Kostanich
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Prepared by: Ryan D. Cromar R D C
                    Sample Design Team

Subject: Accuracy and Coverage Evaluation Survey: Updated County Sample
                    Size Estimates

Introduction

The Sample Design Team prepared and delivered county estimates of the Accuracy and
Coverage Evaluation (A.C.E) listing workloads for Census 2000 as documented in reference [1]
and [2]. These numbers can be used to get an indication of how the A.C.E listing work will be
distributed across counties in a state. The purpose of this memorandum is to document the
updated county listing workloads for states that will get additional American Indian Reservations
(AIR) block cluster sample. We provided these updated workloads in April, 1999. Note that the
A.C.E. listing sample has been selected, and more accurate sample sizes have already been
provided. An AIR sample of 355 block clusters based on recommendations in reference [3] and
documented in reference [4] is included in these numbers. The additional AIR block cluster
allocation for certain states is also documented in reference [4]. The allocations and county
workloads for states without AIR block clusters have not changed. The A.C.E. interview sample
sizes are not available yet.

Assumptions/Limitations

As stated in reference [1] and [2], several assumptions and limitations in computing the A.C.E listing sample sizes for each county should be noted:

- Proportional allocation based on 1990 Census data was used to compute sample sizes for each county within each state.
- We assumed that the housing unit distribution across counties within each state does not change between 1990 and 2000.
- We assumed the state allocation of block clusters documented in reference [3] with the exception of the updated changes listed in reference [2].
- These county workloads are for blocks with at least three housing units in 1990. No small block estimates were computed.
- The listing workloads assume that non-AIR large block clusters will be oversampled and then the housing units will be subsampled to yield roughly 30 housing units to be interviewed per cluster.
- Housing unit follow-up workload and person follow-up workload were not factored in this analysis.
- Puerto Rico estimates are not included in workloads.

Results

The state listing workloads were proportionally allocated to each county and were saved to a spreadsheet. The name of the spreadsheet is titled 2kctywk5.wk4. Based on a meeting with your staff, we have provided the following information for each of the 51 states on the file: initial listing housing units, final listing housing units, final non-AIR listing housing units, and final AIR listing housing units. The initial listing housing units are the previous listing housing unit workloads documented in reference [1] and updated in [2]. The initial listing housing unit workloads do not include the adjustments to the AIR block cluster sample documented in [4]. The final listing housing units do include the AIR allocation adjustments, and are also broken down into non-AIR and AIR workloads. An extract of the Lotus spreadsheet for the counties in Arizona is in the table below.

Arizona ACE County Workload Estimates

Division Code	State Code	County Code	County	Initial Listing Housing Units	Final Listing Housing Units	Final Listing Housing Units Non-AIR	Final Listing Housing Units AIR
8	04		Arizona (State)	47,806	52,912	48,451	4,461
8	04	001	Apache	696	1,745	174	1,571
8	04	003	Cochise	882	919	919	0
8	04	005	Coconino	1,118	1,582	985	597
8	04	007	Gila	582	701	570	131
8	04	009	Graham	138	189	114	75
8	04	011	Greenlee	67	70	70	0
8	04	012	La Paz	223	424	198	225
8	04	013	Maricopa	29,116	30,585	30,330	255
8	04	015	Mohave	767	831	786	45
8	04	017	Navajo	822	1,577	489	1,088
8	04	019	Pima	9,139	9,710	9,448	262
8	04	021	Pinal	1,086	1,249	1,065	184
8	04	023	Santa Cruz	211	220	220	0
8	04	025	Yavapai	1,412	1,488	1,471	17
8	04	027	Yuma	1,545	1,623	1,611	11

This spreadsheet replaced all previous county listing workload spreadsheets up to April 1999 that we have prepared. We provided the Lotus spreadsheet file to Jan Jaworski and Gregg Czerwinski of your staff via cc:mail. If there are any questions, please contact either Ryan Cromar (301-457-1636) or Jim Farber (301-457-4282).

References

[1] Memorandum for Blass from Kostanich, "Census 2000 ICM: County Sample Size Estimates-Reissue," June 29, 1999.

[2] Memorandum for Blass from Kostanich, "Census 2000 Post-Enumeration Survey: Updated County Sample Size Estimates-Reissue," June 29, 1999.

[3] Schindler, E. (1998) "Allocation of the ICM Sample to the States for Census 2000," *Proceedings of the Survey Research Methods Section, American Statistical Association,* Alexandria, VA, American Statistical Association, to appear.

[4] Memorandum for Hogan from Kostanich, "Accuracy and Coverage Evaluation Survey: American Indian Reservations Sample Design," May 5, 1999.

cc:

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